

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

			ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		3124
09/222,460	12/29/1998	MARC R. HAMMERMAN	A-64236-3-RF	J12.
75	590 12/18/2001 BACH TEST ALBRI'	TTON & HERBERT	EXAM	INER
SHITE 3400		11011-	GUPTA	, ANISH
FOUR EMBAI SAN FRANCI	IRCADERO CENTER ISCO, CA 941114187 ART UNIT PAPER NUMBER			
<u> </u>			1653	10
			DATE MAILED: 12/18/200	1 (0

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/222,460	HAMMERMAN ET AL.
Office Action Summary	Examiner	Art Unit
	Anich Gunta	1653
The MAILING DATE of this communication a	appears on the cover sheet with	the correspondence address
a te Basin		
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIO Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	R 1.136(a). In no event, however, may a repl reply within the statutory minimum of thirty (riod will apply and will expire SIX (6) MONTH	ly be timely filed (30) days will be considered timely. HS from the mailing date of this communication.
Status 1) Responsive to communication(s) filed on the state of the	05 October 2001 .	
2h)⊠	This action is non-final.	
2a) [] [] [] [] [] [] [] [] [] [war as avoort for formal matt	ers, prosecution as to the merits is
3) Since this application is in condition for all closed in accordance with the practice un	ider <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 1,4,5,7-9,17,20 and 22-24 is/are	pending in the application.	
4a) Of the above claim(s) is/are with	ndrawn from consideration.	
5) ☐ Claim(s) is/are allowed.		
6) Claim(s) <u>1,4,5,7-9,17,20 and 22-24</u> is/are	rejected.	
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction a	and/or election requirement.	
Application Papers		
9) The specification is objected to by the Exa	iminer.	the Everniner
is/are: a)	accepted or b) objected to by t	me Examiner.
the muset that any objection	n to the drawing(s) be field in abey	alloc. Good or
Applicant may not request that any objection filed on	is: a) approved b)	alsapprovod = 7 ····
If approved, corrected drawings are required	d in reply to this Office action.	
12)☐ The oath or declaration is objected to by t	ne Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		s 119(a)-(d) or (f).
13) Acknowledgment is made of a claim for t	foreign priomy under 35 0.5.0.	(3 110(a) (a) a ()
a) ☐ All b) ☐ Some * c) ☐ None of:	h-an received	
1. Certified copies of the priority doc	uments have been received in	Application No.
2. Certified copies of the priority doc	uments have been received in	n received in this National Stage
	or a list of the certified copies no	ot received.
14) Acknowledgment is made of a claim for d	lomestic priority under 35 U.S.C	3. § 119(e) (to a provisional applicant
a) ☐ The translation of the foreign languation of the Acknowledgment is made of a claim for the foreign languation of the	ago provicional application tida	Decil icocivoa.

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

Attachment(s)

6) Other:

4) Interview Summary (PTO-413) Paper No(s). _____.
5) Notice of Informal Patent Application (PTO-152)

Application/Control Number: 09/222,460

Art Unit: 1653

DETAILED ACTION

The amendment filed 10-5-01 is acknowledged. The amendment

1. All rejections made in the previous office action are hereby withdrawn. New grounds for rejections follow below.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 states that "the composition is administered to said recipient in a manner such that. . ." Thus the claims indicates a specific mode of administration is desired. However, the claim does not recite mode of administration constitutes this specific "manner" that achieves the specific desired result. Thus the claims is indefinite.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 4-5 are rejected under 35 U.S.C. 102(a) as being anticipated by Sariola et al.

The claims are drawn to the treatment of metanephric tissue using a growth factor containing composition for metanephric development.

The reference teaches that glial cell line derived neurotrophic factor (GNDF) can induce uretic bud formation from the Wolffian duct in the metanephric area (see page 6, lines 17-18 and page 17, lines 5-30). It should be noted

Page 3

Application/Control Number: 09/222,460

Art Unit: 1653

that the reference characterizes as a growth factor (see page 13). Since the reference the cellular growth to the metanephric area, the claims are anticipated by the reference. Although the reference does not teach the limitation of transplantation, such language is an intended use limitation. Intended use or field of use for the invention generally will not limit the scope of a claim. Moreover, where the claimed and prior art products are identical or substantially identical in structure or composition, a prima facie case of either anticipation or obviousness has been established. In re Best, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best, supra.

5. Claims 1, 4-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu et al.

The claims are drawn to the treatment of metanephric tissue using a growth factor containing composition for metanephric development.

The reference teaches that mouse metanephroi were exposed to IGF-I (100ng/mL) in an organ culture for seven days. An enlargement of the metanephroi was observed. The reference concludes that IGF-I has a trophic effect on the embryonic kidney during the postinductive period of metanephric development (see abstract). Although the reference does not teach the limitation of transplantation, such language is an intended use limitation. Intended use or field of use for the invention generally will not limit the scope of a claim. Moreover, where the claimed and prior art products are identical or substantially identical in structure or composition, a prima facie case of either anticipation or obviousness has been established. In re Best, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best, supra.

6. Claims 1 and 4-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Rogers et al.

Art Unit: 1653

The claims are drawn to the treatment of metanephric tissue using a growth factor containing composition for metanephric development.

The reference teaches that TGF-α, when administered to the removed metanephroi, was effective in increasing the size of morphological complex of metanephroi. The reference concludes that the peptide is necessary for growth and development of metanephroi in vitro (see abstract). Although the reference does not teach the limitation of transplantation, such language is an intended use limitation. Intended use or field of use for the invention generally will not limit the scope of a claim. Moreover, where the claimed and prior art products are identical or substantially identical in structure or composition, a prima facie case of either anticipation or obviousness has been established. In re Best, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best, supra.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Application/Control Number: 09/222,460

Art Unit: 1653

7. Claims 7-9, 17, 20 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hammerman et al. in view of Liu et al..

The claims are drawn to the treatment of metanephric tissue using a growth factor containing composition for metanephric development.

Hammerman et al. teach a method of increasing nephon mass of a mammalian recipient comprising implanting at least one whole metanephros of an embryonic mammalian donor next to the recipients omentum (see claims). The difference between the prior art and the specification is that the reference does not teach the administration of a growth factor.

However, Lui et al. teaches that mouse metanephroi, when exposed to IGF-I (100ng/mL) in an organ culture for seven day, resulted in the enlargement of the metanephroi. The reference concludes that IGF-I has a trophic effect on the embryonic kidney during the postinductive period of metanephric development (see abstract). Therefore it would have been obvious s to administer exogenous IGF-I after the transplantation to induce growth and differentiation of the metanephroi tissue.

8. Claims 7-9, 17, 20 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hammerman et al. in view of Rogers et al..

The claims are drawn to the treatment of metanephric tissue using a growth factor containing composition for metanephric development.

Hammerman et al. teach a method of increasing nephon mass of a mammalian recipient comprising implanting at least one whole metanephros of an embryonic mammalian donor next to the recipients omentum (see claims). The difference between the prior art and the specification is that the reference does not teach the administration of a growth factor.

The reference teaches that $TGF-\alpha$, when administered to the removed metanephroi, was effective in increasing the size of morphological complex of metanephroi. The reference concludes that the peptide is necessary for growth and development of metanephroi in vitro (see abstract). Therefore it would have been obvious s to administer exogenous IGF-I after the transplantation to induce growth and differentiation of the metanephroi tissue.

Application/Control Number: 09/222,460

Art Unit: 1653

9. Claims 7-9, 17, 20 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Woolf et al. in view of Rogers et al..

The claims are drawn to the treatment of metanephric tissue using a growth factor containing composition for metanephric development.

Woolfe et al. teach the implantation of metanephric tissue from neonatal mice (see abstract). The reference further indicates the "feasibility of adding functional nephrons to mammalian kidneys in which there is on going nehporgeneiss post-natally" (see abstract). The difference between the prior art and the specification is that the reference does not teach the administration of a growth factor.

The reference teaches that $TGF-\alpha$, when administered to the removed metanephroi, was effective in increasing the size of morphological complex of metanephroi. The reference concludes that the peptide is necessary for growth and development of metanephroi in vitro (see abstract). Therefore it would have been obvious s to administer exogenous IGF-I after the transplantation to induce growth and differentiation of the metanephroi tissue.

10. Claims 7-9, 17, 20 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Woolfe et al. in view of Liu et al..

The claims are drawn to the treatment of metanephric tissue using a growth factor containing composition for metanephric development.

Woolfe et al. teach the implantation of metanephric tissue from neonatal mice (see abstract). The reference further indicates the "feasibility of adding functional nephrons to mammalian kidneys in which there is on going nehporgeneiss post-natally" (see abstract). The difference between the prior art and the specification is that the reference does not teach the administration of a growth factor.

However, Lui et al. teaches that mouse metanephroi, when exposed to IGF-I (100ng/mL) in an organ culture for seven day, resulted in the enlargement of the metanephroi. The reference concludes that IGF-I has a trophic effect on the embryonic kidney during the postinductive period of metanephric development (see abstract). Therefore it would have been obvious s to administer exogenous IGF-I after the transplantation to induce growth and differentiation of the metanephroi tissue.

Page 7

Art Unit: 1653

Anish Gupta whose telephone number is (703) 308-4001. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low, can normally be reached on (703)308-2923. The fax phone number of this group is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Ag 1-/13/13,

Anish Gupta

CHRISTOPHER'S. F. LOW
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600